

ABSTRACT OF THE DISCLOSURE

A wireless communications system in which real-time data and burst data can be mixedly transmitted, and a transmission band
5 can be dynamically assigned according to a state of data transmission. A master station has a scheduler for determining a transmission band assignment including information about the transmission timing of the data, a transmission amount, and a station that is allowed to access. The scheduler regularly carries
10 out scheduling, and optimizes the transmission band to be assigned dynamically according to the communication type of the data and a state of data transmission. The master station gives a transmission band assignment which is determined by the scheduler to each slave station. A transmitting station executes data
15 transmission (access) to a receiving station based on the given transmission band assignment. The receiving station gives information about a state of data receiving to the master station, where the scheduler reflects this on scheduling.